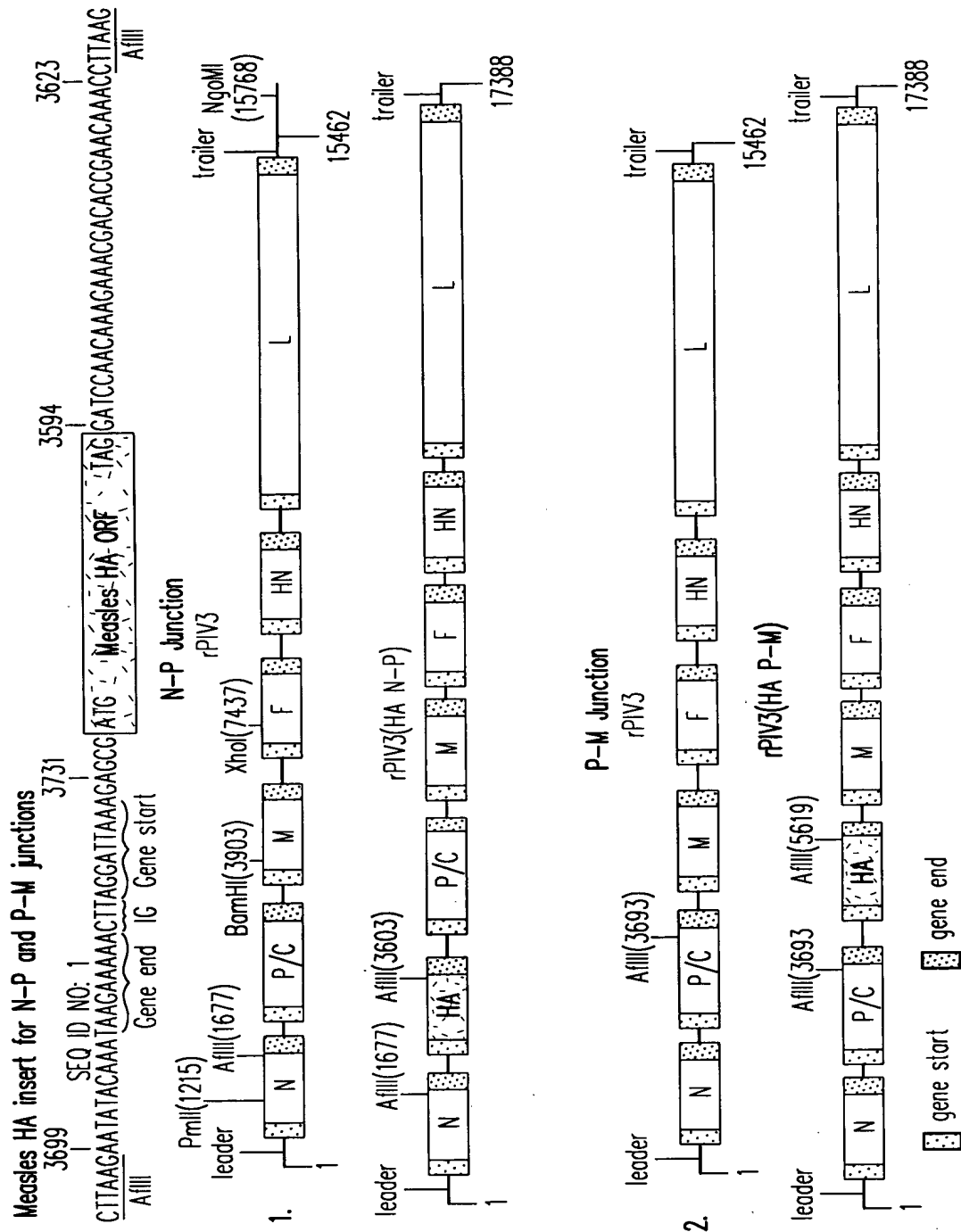
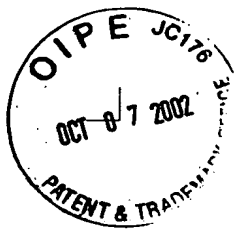




FIG. 1A

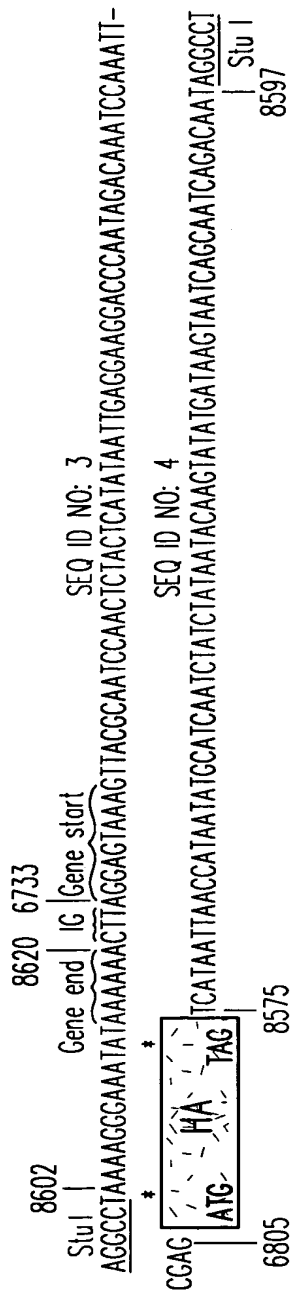




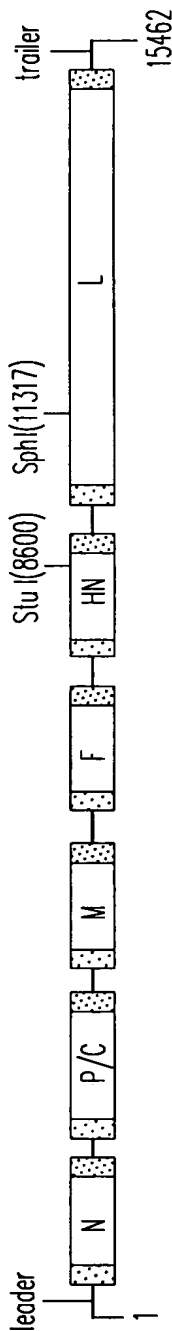
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FIG. 1B

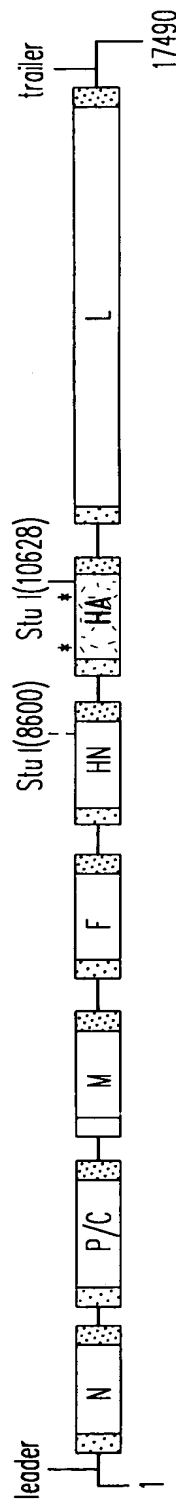
Measles HA insert for the HN-L junction



rPIV3(encoded by p3/7/(131)2G-Stu)



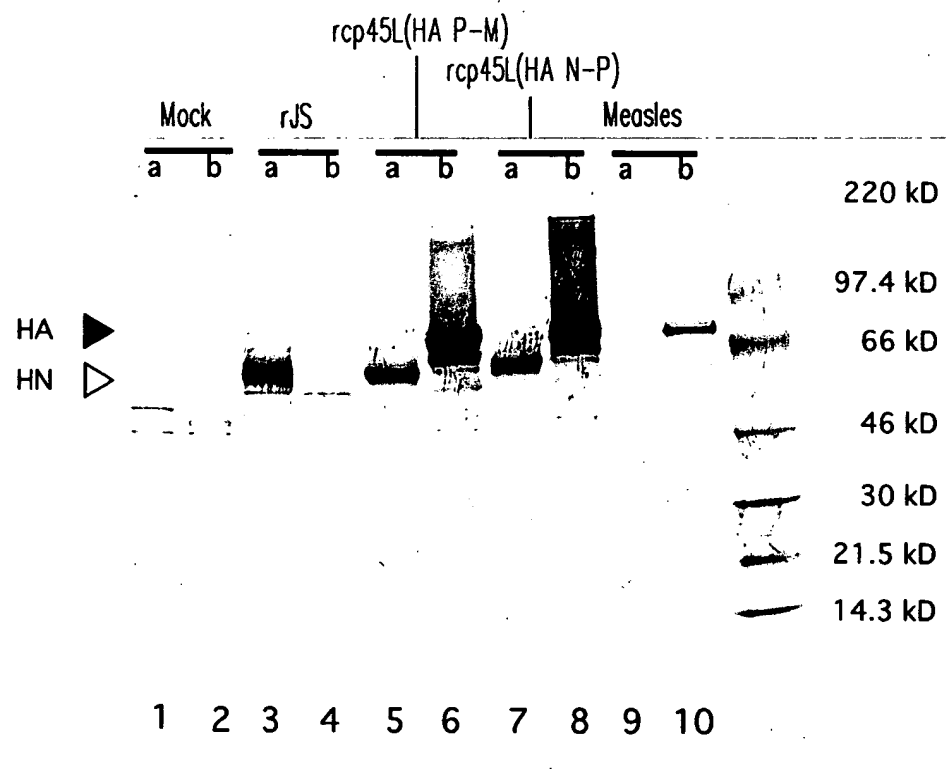
rPIV3(HA HN-L)





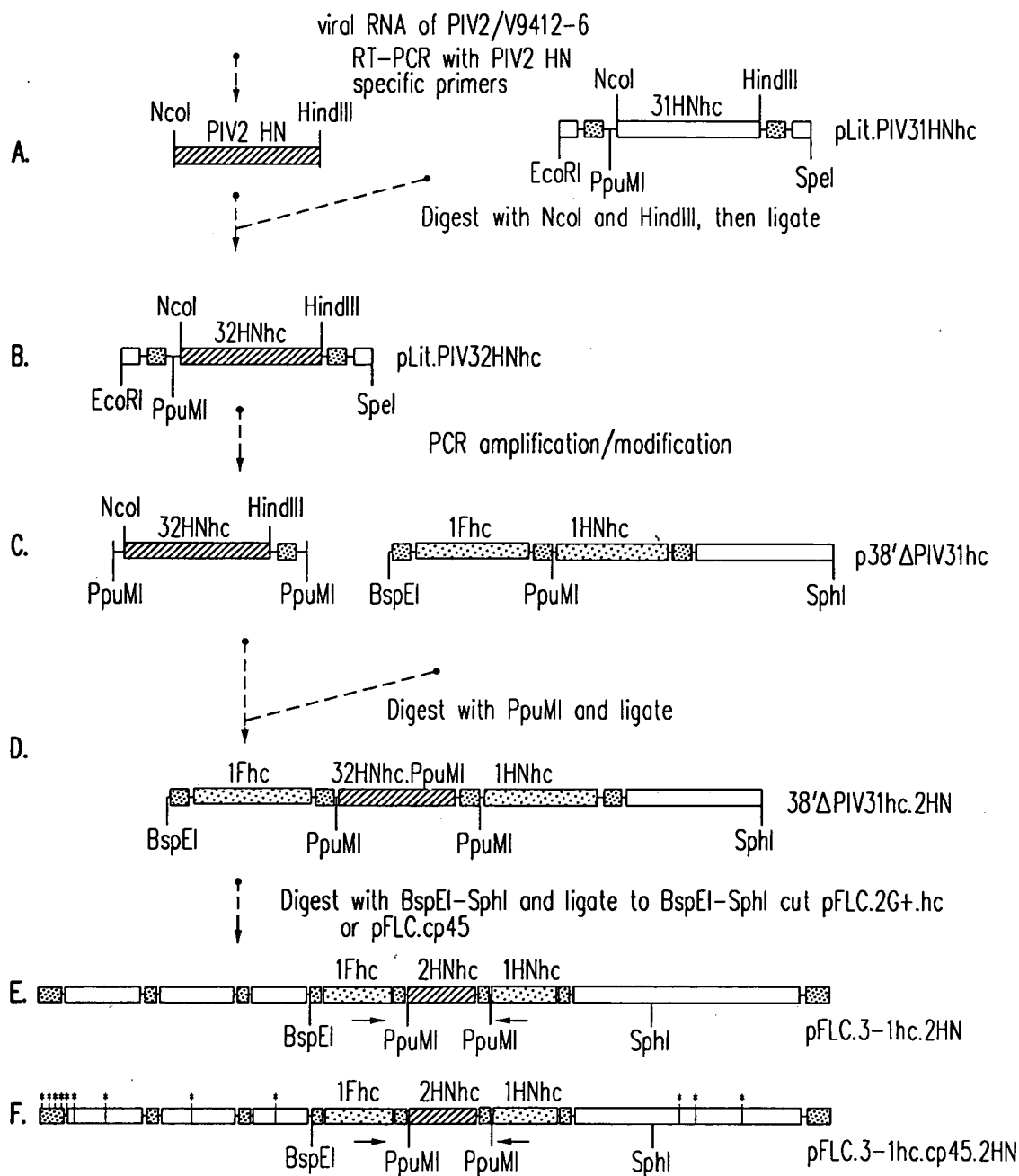
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FIG. 2



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FIG. 3

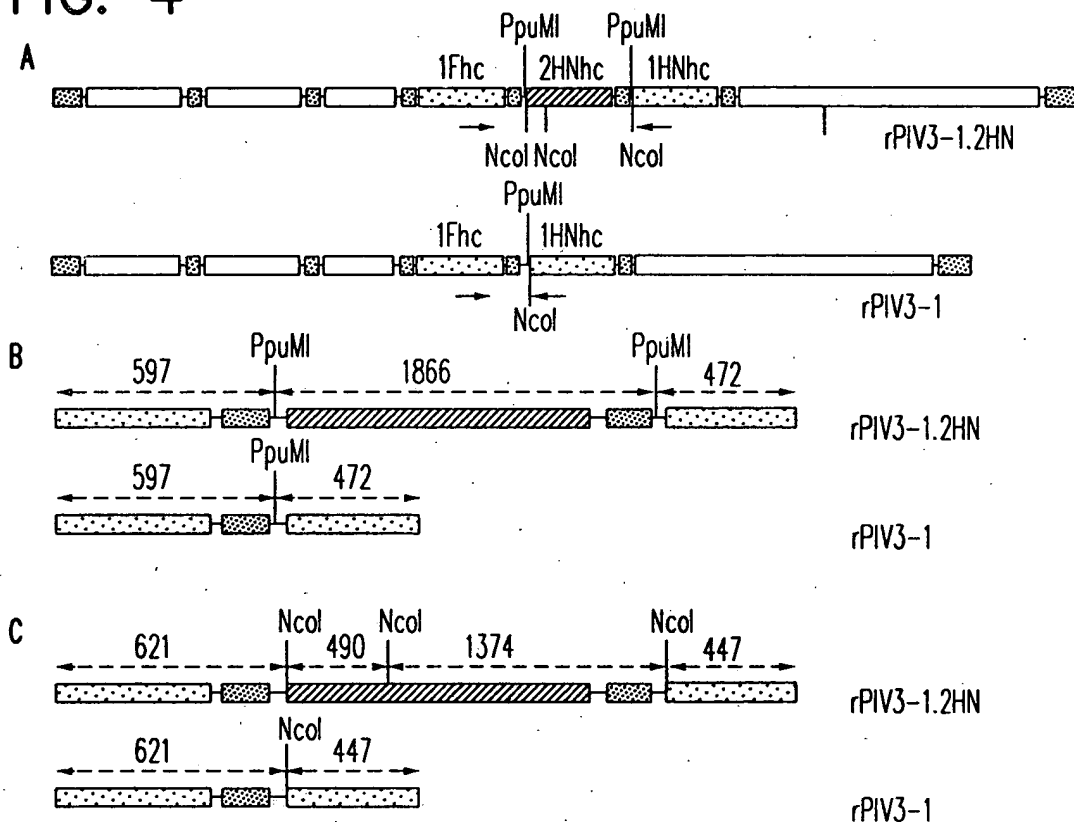


- PIV3 gene
- ▨ PIV2 gene
- ▤ PIV1 gene
- ▧ PIV3 GE.IG.GS
- PIV3 noncoding
- ↑ cp45 mutations
- RT-PCR Primer position



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FIG. 4

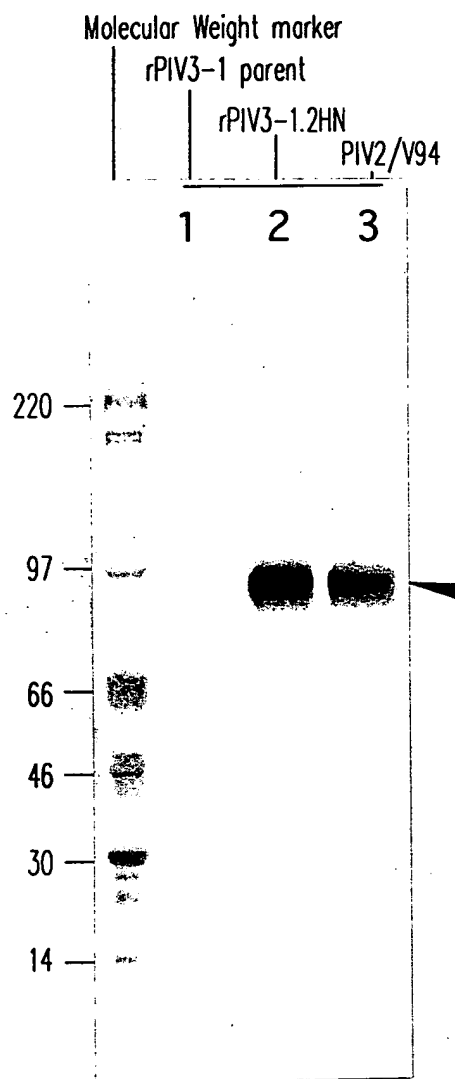


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FIG. 5



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FIG. 6

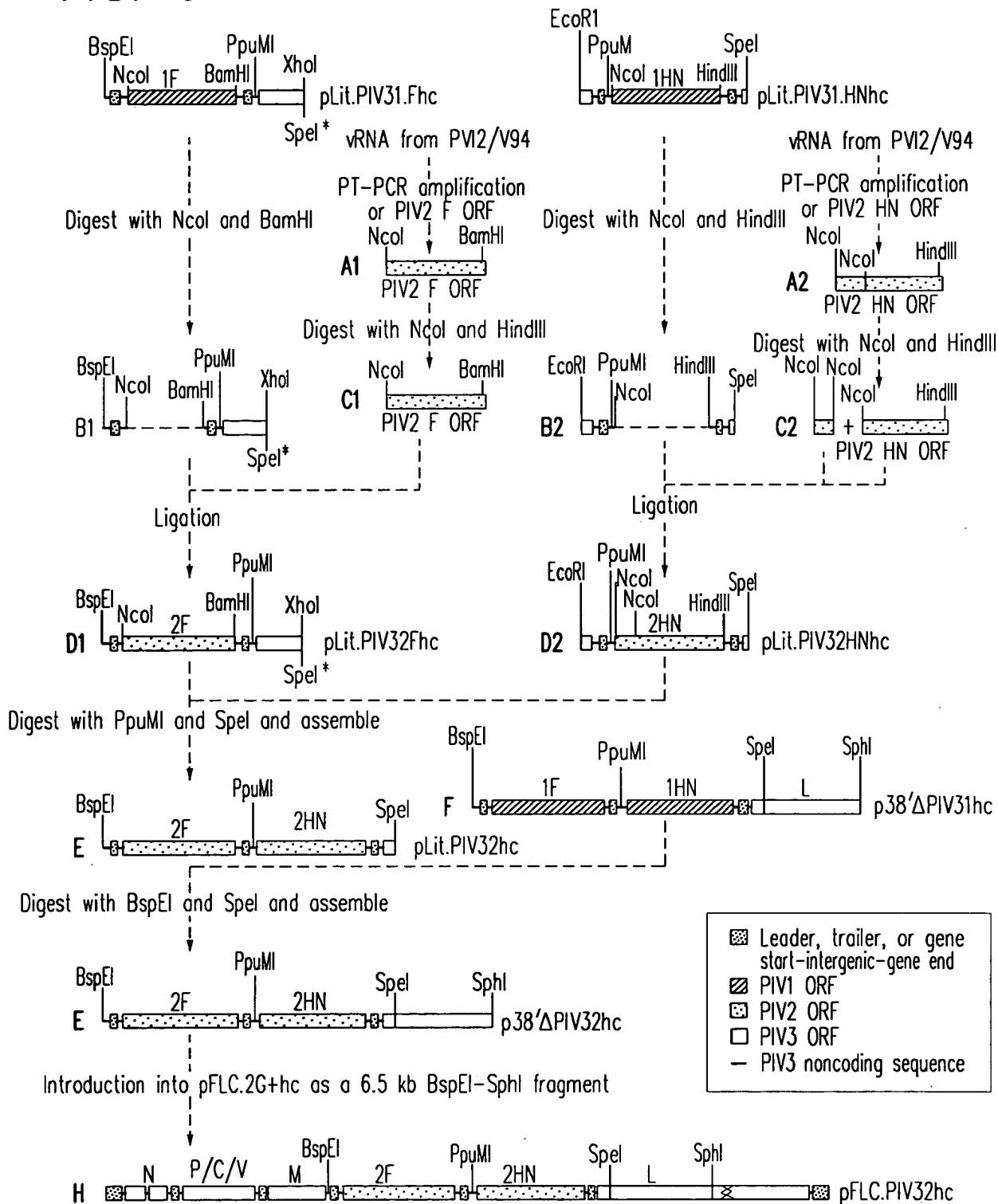
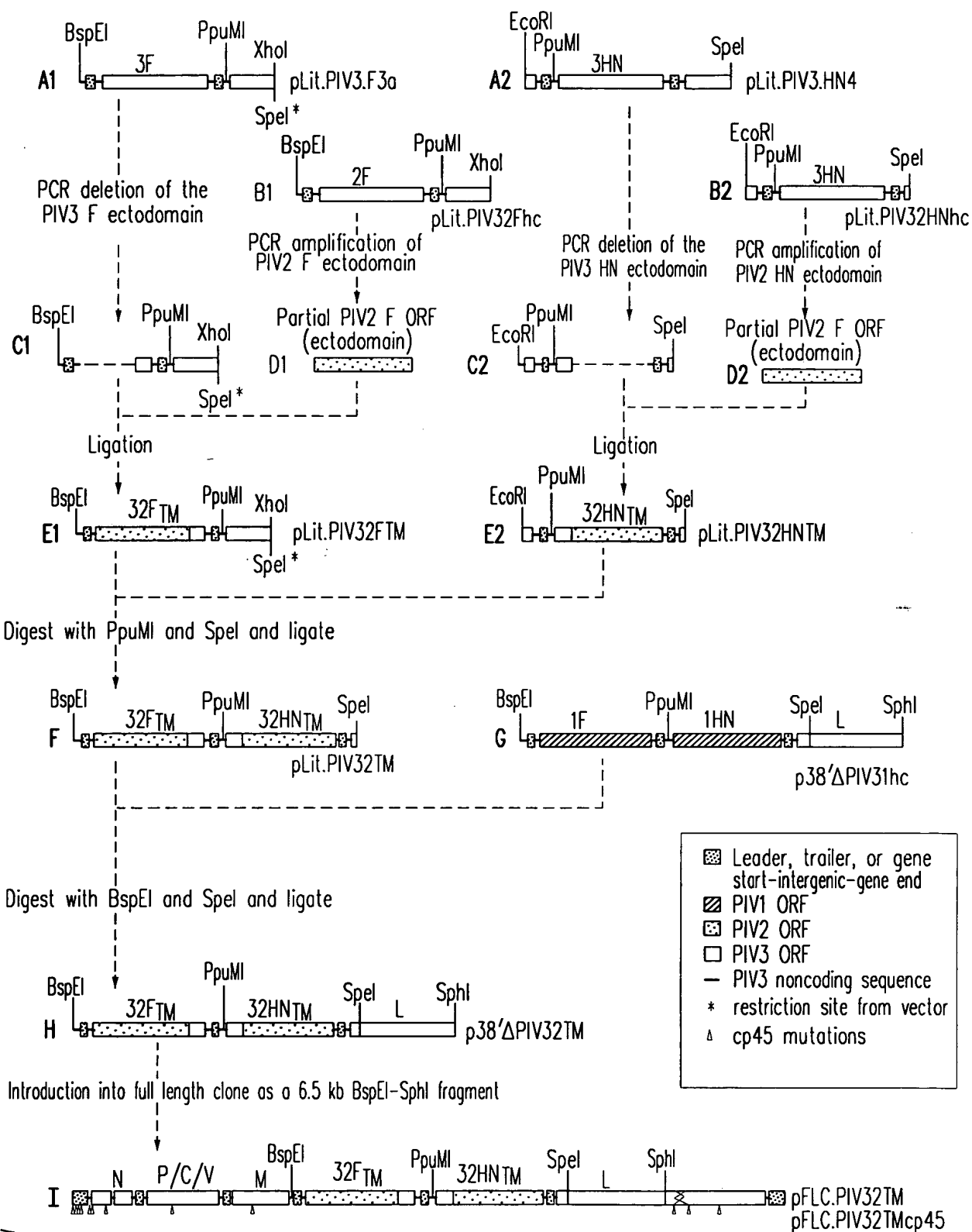


FIG. 7





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FIG. 8

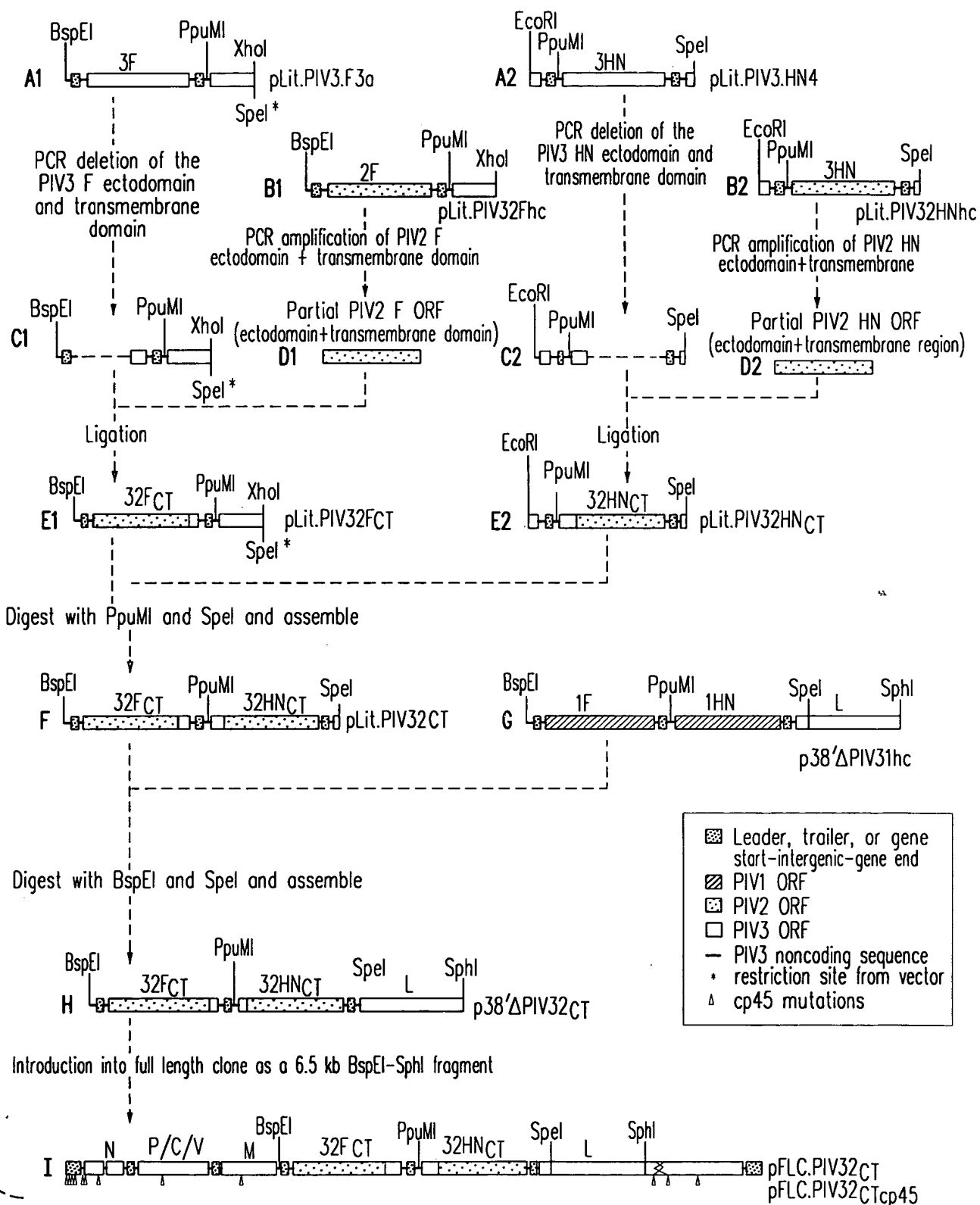
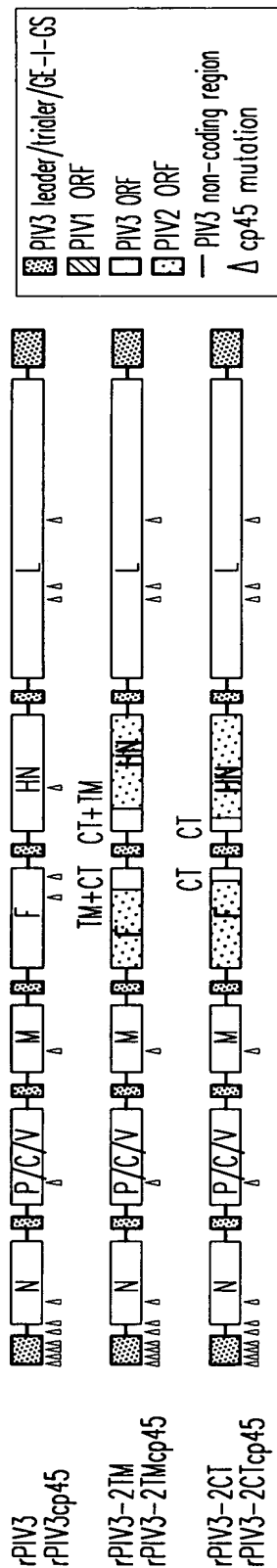
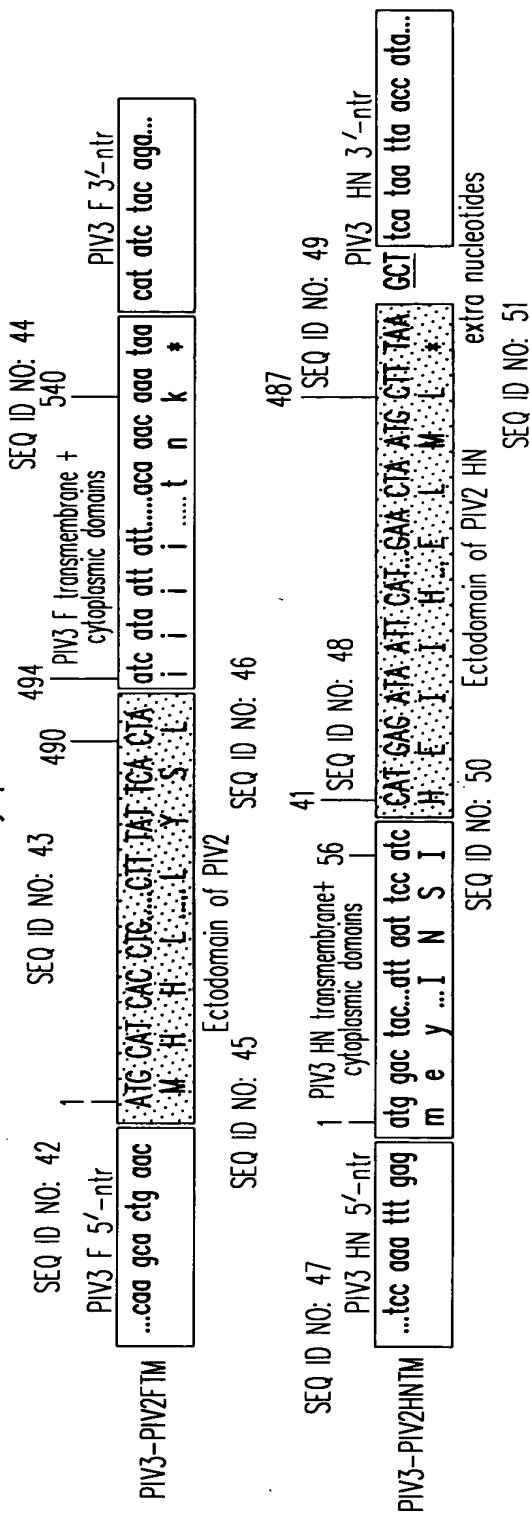


FIG. 9A

A. Genetic structures PIV3-2 chimeric viruses compared with rPIV3 parent and rPIV3-1



B. Chimeric PIV3-2F and HN constructs with transmembrane and cytoplasmic domains derived from PIV3 F and HN

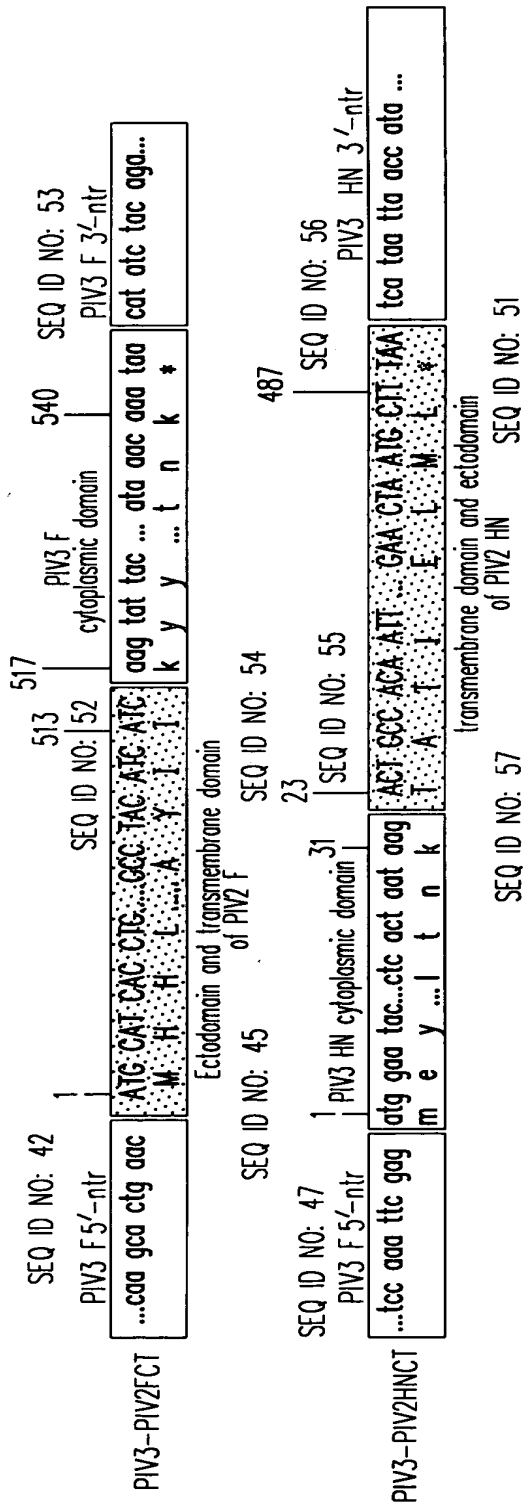




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FIG. 9B

C. Chimeric PIV3-2 F and HN constructs with cytoplasmic domain derived from PIV3 F and HN





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FIG. 10

